

Abstract

Method and Systems for Non-Call Associated Signaling in a Multi-Protocol Telecommunications Environment

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Some of the services provided in modern communications networks do not require a bearer connection. The set of such services is commonly referred to as non-bearer associated or non-call associated services. Previously, all non-call associated signaling has been handled by local exchanges (E1, E4) to which terminals (A, B) had been exclusively coupled. Problematically, in a network having circuit switched and packet (P) switched sections, there are terminals (B) that are no longer exclusively coupled to a local exchange. In accordance with the invention there is provided a method for providing control of a terminal (B). There is also provided a network arrangement for a telecommunications network for providing control of a terminal (B). In accordance with the invention there is further provided a non-call associated signaling gateway for a telecommunications network, comprising: a control function (SIP control) for bidirectionally communicating control information or status information via a packet switched network section (P) to a terminal (B), an application service element (CCBS ASE) for bidirectionally communicating non-call associated signaling information to a circuit switched network section over a signaling relation (4), wherein the application service element (CCBS ASE) provides for the termination of the signaling relation (4), and a mediation function (MF) for bidirectionally transposing the control or status information to non-call associated signaling information.

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Fig. 3B